

PUTTING STROKE TRAINING DEVICE

FIELD OF THE INVENTION

5 This invention relates generally to devices that assist golfers in improving their game and, more particularly, to devices that assist in perfecting a golfer's putting stroke.

BACKGROUND OF THE INVENTION

A major problem encountered in perfecting the game of golf is the development of consistency in a golfer's putting stroke. In order to perfect one's putting stroke, practice devices
10 have been developed so that the golfer can repetitively practice putting in order to improve the consistency of his stroke.

Many of the devices in the prior art are "box" type putting devices of a fixed size and shape. Such devices do not provide for adaptation to the size of putter used nor do they provide the user with the ability to practice using a natural putting stroke having "follow through" in the
15 swing of the putter. The user of these prior art designs is forced to stop the putter "short" in order to avoid hitting the device during the "follow through" motion of his swing. Other devices in the prior art are flat surfaced devices having lines for putter guidance. Such devices offer no targets to access accuracy.

There is a need for a putting stroke training device that provides flexibility whereby the
20 golfer can practice his putting stroke with the device outside in a natural environment on a lawn or golf course or, alternatively, inside a building on a carpeted surface. There is also a need for a device that is adjustable to accommodate different sizes and styles of putters.

There is also a need for a device that is weighted and can be anchored so that it will stay
25 in position during use. Furthermore, there is a need for a device that captures the balls during use for easy reuse.

There is also a need for a device that can be accommodated for use by both right and left handed golfers and a device that can be adjusted to the individual stance of the user. Additionally, there is a need for a device that is designed so as to allow the use of a natural putting stroke during practice so that consistency can be developed and the practiced and

5 perfected stroke repeated during an actual golf game.

OBJECTS OF THE INVENTION

It is an object of the invention to provide an improved putting device for use by golfers to improve and perfect their putting stroke. In particular, there is a need for a putting stroke device that allows the golfer to use the same stroke with the device as the stroke used on a golf course

10 during a game. A further object of the device is to provide a device of a shape and design that will not interfere with the putter's natural stroke when used.

Another object of the invention is to provide a device that is adjustable to accommodate use with putters of various sizes and styles. Still another object of the invention is to provide a marker so that the user can easily mark the ball position in his stance when using the device. Yet

15 another object of the invention is to provide for a device that may easily be used outside in a natural environment or inside on a carpeted surface.

Yet another object of the invention is to provide for a device that is sufficiently weighted or anchored so that it can be locked in a fixed position during indoor or outdoor use. Another object of the invention is to provide for a detachable net so that, when the net is attached, the

20 balls traveling through the device may be stopped within a certain distance from the device and easily gathered by the user for reuse and, further, that allows the net to easily be removed for use of the device on outdoor surfaces. Yet a further object of the invention is to provide for a device

that accommodates both right and left handed golfers. How these and other objects are accomplished will become apparent from the following descriptions and from the drawings.

SUMMARY OF THE INVENTION

The invention is a putting stroke training device for use in training a user to develop a
5 consistent and accurate swing in practicing putting. The device has a first arm having a first arm closed end and a first arm open end, a second arm having a second arm closed end and a second arm open end, an elevated arch attached to the first arm of the first arm closed end and also attached to the second arm at the second arm closed end. The device also has a means of attachment of the elevated arch to the first arm closed end and the second arm closed end. In the
10 preferred embodiment, the elevated arch is of sufficient dimensions to allow the passage of a golf ball therethrough on a path equally dividing the device along its length.
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In a preferred embodiment, the first arm is rotatable around the means of attachment between the first arm closed end and the elevated arch. Furthermore, the second arm is rotatable around the means of attachment between the second arm closed end and the elevated arch. The
means of attachment of the first arm closed end to the elevated arch and the second arm closed end to the elevated arch may be by means of wing nuts and screws, although other means of
attachment are also possible. Preferably, the second arm is connected at the second arm open end to a marker extending in a direction perpendicular from a line drawn through the device along its center length. In one embodiment, the marker can be removably detached from the
20 second arm open end and alternatively affixed to the first arm open end.

In a preferred embodiment of the invention, the rotatable means of attachment between the first arm closed end and the elevated arch and for rotating the second arm closed end around the attachment to the elevated arch are lockstepped grooves.

In one aspect of the invention, the device also comprises means for catching a golf ball traveling therethrough. In a preferred embodiment of this device, the means for catching the golf ball is a net removably attached to the device. In one aspect, the elevated arch has an elevated arch right side and an elevated arch left side and the net is removably attached to the elevated arch on the elevated arch right side and the elevated arch left side. The means of removable attachment of the net to the elevated arch may be by means of Velcro, although alternative means are also possible and included herein.

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In a preferred embodiment of the device, the first arm and the second arm each include means for stabilizing the device. The means for stabilizing the device may be anchors. In a 10 preferred embodiment of the device, the first arm and the second arm may have at least one hole each therethrough whereby stabilizing means, such as golf tees, may pass therethrough and be driven into the ground.

The device may also have a first arm guide ball affixed to the first arm open end and a second arm guide ball affixed to the second arm open end. In a preferred embodiment of the 15 device, the first arm is a mirror image of the second arm. This embodiment may give the device an overall horseshoe-like curve shape.

In yet another aspect of the invention, a method for making a putting stroke training device is described comprising a first arm having a first arm closed end and a first arm open end, as well as a second arm having a second arm closed end and a second arm open end. An 20 elevated arch is attached to the first arm of the first arm closed end and the second arm at the second arm closed end, and there are means of attachment of the elevated arch to the first arm closed end and to the second arm closed arm. This method may also comprise a method for

making a putting stroke training device wherein the elevated arch is of sufficient dimensions to allow the passage of a golf ball therethrough on a path dividing the device along its length.

Other aspects of the invention are set forth in the following detailed description and in the drawing.

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BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a perspective view of the preferred embodiment of the device.

FIG. 2 is a top view of the preferred embodiment of the device, referencing cutaway view 4-4 shown in FIG. 4 and showing the rotation of the first arm and the second arm, as well as the approximate movement of the golf ball traveling through the device when the device is in use,
10 shown in phantom lines along the imaginary line A-A.

FIG. 3 is a side view of the device referencing a cutaway portion of the drawing 5-5 shown in FIG. 5.

FIG. 4 is a cutaway view of 4-4 in FIG. 2, showing attachment of the first arm and the second arm and attachment of the net to the elevated arch.

15 FIG. 5 is an enlarged view of 5-5 in FIG. 3, showing the step-locked rotation of the second arm due to the lockstepped grooves.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

FIG. 1 shows a preferred embodiment of the new putting stroke training device 10. The device 10 is constructed to allow the use of a putter in a natural stroke when practicing and perfecting putting technique. The device 10 provides for this by allowing an opening sufficient to allow the free flowing travel of a putter in a natural swing at the open end of the device 10.
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The preferred embodiment of the device 10 as shown in FIG. 1 consists of two elongated arms, a first arm 11 and a second arm 12, each preferably constructed of a weighted substance

such as steel or some other metal and of a thickness of approximately one-quarter inch. Other materials and thicknesses of materials could also be used. Each of the arms **11** and **12** are approximately twenty-four inches in length and each have at least one hole **31** therethrough whereby an anchoring device, such as an ordinary golf tee, could pass for anchoring purposes.

- 5 The preferred embodiment of the device **10** has two holes **31** in the first arm **11** and two holes **31** in the second arm **12**, as shown in FIG. 1. The first arm **11** and the second arm **12** are preferably mirror images of one another, although this is not required. The first arm **11** has a first arm closed end **13** and a first arm open end **14**. The second arm **12** has a second arm closed end **15** and a second arm open end **16**.

- 10 In a preferred embodiment, a first arm guide ball **17** is attached through a hole in the first arm open end **14** and a second arm guide ball **18** is attached through a hole in the second arm open end **16**. The first arm guide ball **17** and the second arm guide ball **18** act as guide balls for the user of the device **10** in practicing his stroke. The first arm guide ball **17** is affixed to the first arm open **14** end by the use of a screw **19** passing from the bottom of the device **10** through the
- 15 first arm **11** into the first arm guide ball **17**. The second arm guide ball **18** is affixed to the second arm open end **16** by the use of a screw **19** passing through the bottom of the second arm **12** into the second guide ball **18**. Preferably, the exposed metal of the screws **19** are covered with small rubber bases **20**.

- 20 If the user of the device **10** makes an accurate stroke on the golf ball **28** with a putter, the putter will swing easily between the guide balls **17, 18**. However, if the putter strikes either of the guide balls **17, 18**, the user will easily recognize that the stroke was incorrect. It therefore can be observed how the use of guide balls **17, 18** can assist the user of the device **10** to perfect his stroke by communicating through free movement in the stroke when the stroke is correct.

The device **10** therefore assists the user to recognize when the stroke is correct and thereby allow him to perfect his stroke through repetition and practice with the device **10**.

As shown in FIGS. 1 and 2, in a preferred embodiment of the device **10**, a ball position marker **21** is also attached to the second arm open end **16**. The ball position marker **21** is 5 preferably manufactured of a piece of metal similar in thickness and type to that used for the first arm **11** and the second arm **12**, although it can also be made of different materials. The ball position marker **21** projects perpendicularly from a line (**A-A**) running through the center of the length of the device **10**. The ball position marker **21** is preferably twelve inches in length and one and one-half inches in width, although alternative sizes could be used in the device and are 10 intended to be included herein. In a preferred embodiment, the ball position marker **21** may be removably affixed to either the first arm **11** or the second arm **12** to accommodate both right and left handed golfers.

Turning to FIG. 4, the device **10** also comprises an elevated arch **22** having an elevated arch right side **23** and an elevated arch left side **24** made of similar material as the arms **11, 12** of 15 the device **10**. The first arm closed end **13** is attached to the elevated arch right side **23** and the second arm closed end **15** is attached to the elevated arch left side **24**. The attachment may be by varied means, but preferably through the use of a screw **25** and wing nut **26** combination, which can easily be unfastened to provide for easy rotation of the first arm **11** or second arm **12**, as shown in FIG. 2. The device **10** preferably is constructed to allow the arms **11, 12** to rotate in 20 order to accommodate varied openings between the two guide balls **17, 18** at the first arm open end **14** and the second arm open end **16**.

In a preferred embodiment of the device **10**, the rotation is by means of a lockstep grooves **27** so that, once the device **10** is fixed, it will remain in position unless the position is

deliberately changed. In a preferred embodiment, the first arm **11** is a mirror image of the second arm **12** and has an outward curvature so that when the device **10** is viewed from above, as in FIG. 2, it has an overall elongated horseshoe appearance. However, it should be noted that alternative shapes are equally feasible and are intended to be included in this disclosure.

5 The elevated arch **22** is of sufficient dimensions to allow the easy movement of a golf ball **28** therethrough. A preferred embodiment of the elevated arch **22** would provide for an opening therethrough of approximately two and one-half inches in height and two and one-quarter inches in width. The length of the device **10** from the elevated arch to the open end of the arms **14, 16** is preferably 24 inches, although alternative lengths are also feasible. However,
10 it is determined that this length is preferable to allow a natural putting stroke between the two guide balls **17, 18** without the possibility of hitting the elevated arch **22** with a putter. The length of the device **10** also provides stability and is of a sufficient length to provide some challenge to the user in perfecting his stroke.

A preferred embodiment of the device **10**, particularly one for use indoors, further
15 comprises means for catching a golf ball **28**, preferably a net **30** attached at the end of the device **10** opposite the guide balls **17, 18** and ball position marker **21**, although alternative means of capturing golf balls **28** could also suffice. The net **30** is preferably detachable and can be affixed to the device **10** by various means and in various locations. However, the net **30** is preferably
20 affixed to the elevated arch right side **23** and the elevated arch left side **24** by use of Velcro strips or some other means of removable attachment. Preferably, the net **30** would extend beyond the elevated arch **22** by about six inches.

To use the device **10**, the golfer fixes the arms **11, 12** of the device **10** in a sufficiently "open" position to allow the head of the chosen putter to pass between the guide balls **17, 18**

without touching them. The golfer then stands with his feet parallel to the ball position marker 21 with the golf ball 28 placed between the two guide balls 17, 18. The ball position marker 21 is rotated to extend at 90° from line A-A after the two guide balls 17, 18 are opened to properly accommodate the width of the head of the putter being used. The ball position marker 21 shows 5 the user where the golf ball 28 rests in the user's stance when struck by the putter head. It is important for golfers to know where the golf ball 28 rests in the golfer's stance in order to putt accurately. If the golf ball 28 is too far back in the stance, the putter blade will be "open" and the golf ball 28 will bear right after the putt. If the golf ball 28 is too far forward the putter will be "closed" and the golf ball 28 will bear left. Using the ball position marker 21 allows the golf 10 ball 28 to be placed in the proper position in the user's stance each time the user puts. The user hits the golf ball 28 through the length of the device 10, under the elevated arch 22 and into the net 30.

The device 10 can be used for putting practice outdoors by removing the net 30, so as to allow the golf ball 28 to travel on natural grass putting greens into holes at multiple distances.

15 This allows the user to gain practice in gauging how hard to strike the golf ball 28 to accommodate the distance. Preferably, the device 10 may be anchored when in use outdoors by the use of tees pushed through holes 31 in the arms 11, 12 of the device 10 and into the putting green surface, thereby anchoring the device 10 in place on the putting green.

While the principles of the invention have been described in connection with exemplary 20 embodiments, it should be understood clearly that such descriptions are by way of example and are not limiting.